

Method and Apparatus for Scalable Handling of Non-Tree
Structures In Parser Tree Reconstruction

Fan Kong

5

ABSTRACT OF THE DISCLOSURE

10 A linear node includes a begin option node that
has a direct link to an end option node. The begin
option node has a single entry, and also includes a
list of links with each entry in the list being a link
to one of a plurality of parallel branches. Each of
the plurality of branches represents one possible value
of a command element of the configuration command.
15 Each branch is connected back to the begin option node
through a next option node. During parsing of a
command, each command element is represented by a
different linear node. Also, during parsing of the
command, a linear command regeneration template is
20 generated that includes a begin option node template, a
next option node template, and an end option node
template. The linear command regeneration template is
used to recreate the original command using data in a
system configuration database.

25